



How to install PC-Link readers on Linux

(Example for Ubuntu/Debian systems).

1. Open a root terminal window; you need to have administrator rights.

Get and install the libusb library with the apt-get command:

```
apt-get install libusb-dev libusb++-0.1-4c2
```

Check the installation: You shall find the library libusb.so under the directory /usr/lib/

2. Download and install the libccid package:

```
apt-get install libccid
```

3. Download and install the pcsc-lite package:

```
apt-get install pcscd
```

4. Check that the pcscd service is running:

In the terminal console, run the command `ps -A`.
You should find a "pcscd" process running in the list displayed

5. Download and install libpcsc-lite1:

```
apt-get install libpcsc-lite1
```

6. Download and install libpcsc-lite-dev:

```
apt-get install libpcsc-lite-dev
```

7. Check whether the PC Link reader is detected:

In the terminal, run the command: `lsusb`, you should get the following view :

```
your_system_name:/tmp# lsusb  
Bus 001 Device 006: ID 08e6:3437 Gemplus GemPC Key SmartCard Reader Bus 001 Device 005: ID  
0e0f:0002 Bus 001 Device 001: ID 0000:0000
```

Example: PC Key reader.



8. You can install some tools to check your PCSC installation:

- Download and install libpcsc-perl:

```
apt-get install libpcsc-perl
```

- Download pcsc-tools:

```
apt-get install pcsc-tools
```

PCSC-tools provides several interesting applications

(full information is available here: <http://ludovic.rousseau.free.fr/software/pcsc-tools/>):

- pcsc_scan

Regularly scans every PC/SC reader connected to the host. If a card is inserted or removed a "line" is printed.

- ATR_analysis:

Perl script used to parse the smart card ATR. This script is called (by default) by pcsc_scan.

- Scriptor:

Perl script to send commands to a smart card using a batch file or stdin.